

DLG Error Checking System (DECS)
Version 4.2
Release Notes - June 3, 1999

During the beta testing stage of DECS 4.1 a significant bug was encountered which warranted an immediate fix. Because the 4.1 version was publically available on the MCMC FTP site, this latest fix with the corresponding 4.1 fixes will be included in a new 4.2 version. Data General and Sun versions are available.

The new release can be obtained from:

<ftp://ftpmcmc.er.usgs.gov/release/decs/ver4/>

These release notes are available in text, WordPerfect, and PDF formats from the above directory or from the DECS home page at:

<http://mciweb.er.usgs.gov/ses/decs/index.html>

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FIXES (DECS 4.1 beta release)

Corrected a problem that occurred when using the +S command line option. This option produces a summary indicating how many files 'Passed' and 'Failed' the current execution of DECS and is primarily used for displaying the results of a single DECS execution run against multiple DLGs. Certain 'ERRORS' were not being counted as 'Failed' in the summary counts. Output 'ERROR's within each DLG report were correctly indicated - only the summary was incorrect. A flaw in the code logic has been corrected. This summary option should now consider any file with an ABORT or ERROR as having 'Failed.' Files with only WARNINGS will appear as 'Passed'.

Another problem associated with running a single instance of DECS against multiple DLGs was corrected. If DECS encountered an error relating to the number of elements in the DLG the error field was not correctly re-initialized during subsequent runs. This caused each subsequent file to appear to have the same ERROR. The work around for this behavior was to run DECS on each single DLG. With this fix, running DECS against multiple DLGs will not produce this problem.

Since the above bugs involved memory allocation I am hopeful that the fixes may remedy another random problem reported by RMMC that could not be predictably repeated. This problem occurred when DECS was processing 'concurrently in different windows on different optional files.' DECS would occasionally ABORT during operation although subsequent runs ran correctly. Since this problem could not be repeated in a test mode there is no way to verify this problem still exists. Please let me know if any users run into

similar problems again with the 4.2 release.

DECS 4.2 Fix

Fixed a problem with the comparison of DLG cartunit names and database returned names. DECS only checked character matches up to the shortest name. If the DLG cartunit was shorter than the name returned from the database, DECS only checked up to the end of the DLG cartunit name and did not report an error indicating the discrepancy. For instance,

```
CARTUNIT:  WEST OF WILDCAT MOUNTAIN
DB QUAD NAME:  West of Wildcat Mountain SW
```

in the above instance, DECS did NOT report an error because the quad name checking ended before the 'SW' was encountered. The code responsible for this comparison has been corrected to flag an ERROR if the lengths of the DLG and database quad names are not the same.